(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau

TAIPO OMPI

(43) International Publication Date 26 May 2005 (26.05.2005)

PCT

(10) International Publication Number WO 2005/047162 A1

(51) International Patent Classification⁷: B66B 13/12, 13/20

(21) International Application Number:

PCT/US2003/034911

(22) International Filing Date:

4 November 2003 (04.11.2003)

(25) Filing Language:

English

(26) Publication Language:

English

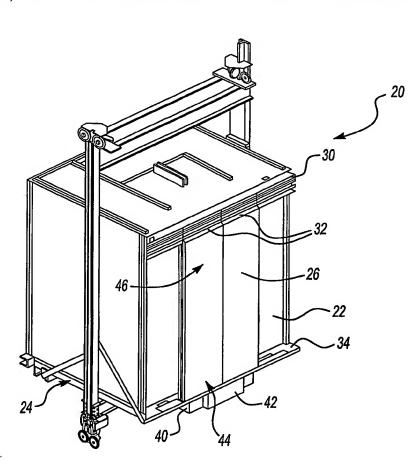
- (71) Applicant (for all designated States except US): OTIS EL-EVATOR COMPANY [US/US]; Ten Farm Springs Road, Farmington, CT 06032 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): GALANTE, Timothy, P. [US/US]; 5 Cherryfield Drive, West Hartford, CT 06107 (US). KULAK, Richard [US/US]; 80 Aldbourne

Drive, Bristol, CT 06010 (US). TERRY, Harold [GB/US]; 73 Deepwood Drive, Avon, CT 06001 (US). LEGEZ, Jacobus, Benjamin [NL/NL]; Distellaan 25, NL-1424 SC De Kwakel (NL).

- (74) Agent: GASKEY, David, J.; Carlson, Gaskey & Olds, 400 W. Maple Rd., Ste. 350, Birmingham, MI 48009 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: ELEVATOR DOOR OPERATOR AND INTERLOCK ARRANGEMENT



(57) Abstract: An elevator door moving arrangement includes a door mover (40) and an interlock device (42) supported near a lower edge (44) of cabin doors (26). The strategic position of the door mover (40) and the interlock device (42) minimizes the distance between the sill member (34, 78) and the operative components for moving the doors. In one example, the entire door mover assembly and the interlock are located beneath a sill member (34), which is beneath the bottom edge of the doors (26).

WO 2005/047162 A1



European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

- with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.